

NETWORK ROUTING AND FILTERING

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PURPOSE

To define the basic routing and filtering being enforced on the wide area network (WAN) provided by the Division of Information Technology Services (ITS).

SCOPE

This policy applies to all ITS customers for WAN services, including all State agencies, political subdivisions of the state, or quasi-governmental agencies attached to routers owned and managed by ITS.

BACKGROUND

The State network has continued to grow in size and complexity over the last few years. Managing a network of this size is a challenge. In an effort to better understand the LAN side of the network and to help maintain standard addressing, ITS developed this policy to provide information to our customers on what they can expect when locations are connected to the network.

POLICY

IPX Protocol Issues

Before a site is connected to the WAN, the agency requesting the connection will identify all IPX networks and services it wishes to advertise and receive.

Output service advertisement (SAP) filters will be used on the area zero serial link of all ABRs to reduce unneeded SAP advertisements across the network.

Only IPX networks identified by the agency and conforming to the State addressing standard will be advertised onto the network from remote routers. This will eliminate duplicate IPX addresses on the WAN.



IP Protocol Issues

All networks that exist on the LAN side will be serviced by a static route from the router. Any unknown or unauthorized network will not be advertised beyond the LAN.

ITS will maintain this information. If an agency desires to change any of these filters or static routes, ITS will attempt to accommodate those changes through its normal documented change management process. In the event these changes result in a burden on ITS staff, some or all of the cost to implement these changes may be passed on to the requesting agency.

